

HIGH VACUUM RECTIFIER

A292

June 1965

ENGLISH ELECTRIC

Page 1

Service Type CV5998

ABRIDGED DATA

External-anode Rectifier for charging diode or overswing diode service in high power pulse modulators.

Peak Inverse Anode Voltage	..	..	..	..	..	40	kV Max
Peak Anode Current	..	..	..	..	..	75	A Max
Mean Anode Current	..	..	..	..	..	1.5	A Max

GENERAL

Electrical

Cathode	..	..	..	..	..	..	Indirectly Heated
Heater Voltage	..	..	..	..	..	12	V
Heater Current	..	..	..	..	..	14±1	A

Mechanical

Overall Length	..	..	..	16.250 inches	(412.8 mm)	Max
Overall Diameter	..	..	..	2.133 inches	(54.18 mm)	Max
Net Weight	..	..	..	5½ pounds	(2.4 kg)	Approx
Mounting Position	..	..	..	..	..	Any
Cooling (See Note 4)	..	..	..	..	..	Water or forced-air

MAXIMUM AND MINIMUM RATINGS

(Absolute Values)

	Min	Max	
Heater Voltage	11.4	12.6	V
Heater Starting Current (Peak)	—	40	A
Cathode Heating Time	6.0	—	minutes
Peak Inverse Anode Voltage (See Note 1)	—	40	kV
Anode Current:			
Peak (See Note 2)	—	75	A
Mean (See Note 3)	—	1.5	A
Anode Dissipation (See Note 4)	—	2.0	kW
Anode Temperature (See Note 5)	—	150	°C
Cathode Terminal Temperature (See Note 5)	—	150	°C

NOTES

1. The cathode terminal must be fitted with a corona shield as described on page 3.
2. For overswing diode service.
3. For charging diode service.
4. The anode must be fitted in a cooling cylinder as described on page 3.
5. Measured at the point specified on page 3.

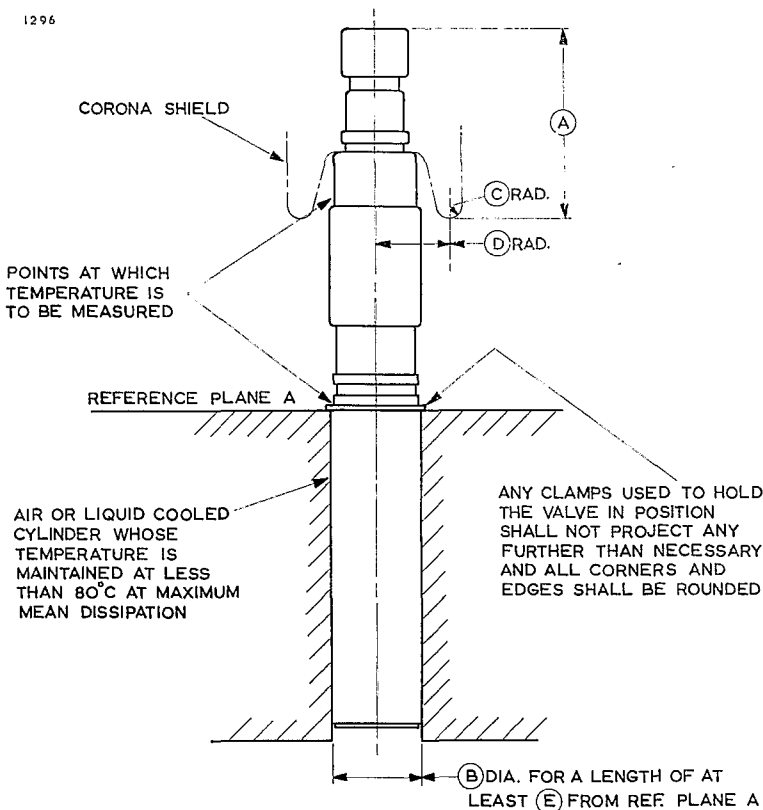
ENGLISH ELECTRIC VALVE CO. LTD.

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COOLING CYLINDER AND CORONA SHIELD

1296



Ref.	Inches	Millimetres
A	4.000	101.6
B	1.950 Max	49.53 Max
	1.948 Min	49.48 Min
C	0.250 Min	6.35 Min
D	1.250 Min	31.75 Min
E	6.750	171.5

Millimetre dimensions have been derived from inches.

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